ROYCE HALL TECHNICAL SPECIFICATIONS

Royce Hall with its two imposing Romanesque-style towers has been the symbol of the University of California at Los Angeles for 80 years. Restored and remodeled after the 1994 earthquake, Royce Hall Auditorium functions as both a fully- equipped proscenium theater with a variable height orchestra pit and a concert hall with a full symphony shell. Administered by UCLA Performing Arts, the facility is staffed by professional stage managers, theater technicians and house staff.

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ADMINISTRATIVE OFFICES:
UCLA LIVE
Royce Hall B100
Box 951529
Los Angeles, CA. 90095-1529
(310) 825-4401
FAX (310) 206-3843

VENUE RENTALS
Rentals: (310) 794-4043
FAX: (310) 794-4302

ROYCE HALL LOADING DOCK
340 Royce Drive
Los Angeles, CA 90095

GENERAL INFORMATION

Stage Dimension

Proscenium Width	**48'5"**	(14.73M)
Standard House Masking Width	**40'0"**	(12.19M)
Proscenium Height	**23' 6½"**	(8.66M)
Center Line to SR Pinrail	**36' 11"**	(11.25M)
Center Line to SL Wall	**38' 0"**	(11.58M)
Fire Curtain Line to Backwall	**33' 9"**	(10.34M)
Fire Curtain to maximum playing area	**32'11"**	(10.03M)
Fire Curtain Line to Apron Edge at Centerline	**2' 3"**	(.69M)
Curtain Line to Edge of First Stage Extension	**12' 0"**	(3.66M)
Curtain Line to Edge of Second Stage Extension	**17' 0"**	(5.18M)

Stage extensions are lowered to create a 35 to 40 member orchestra pit.

Height of Stage Floor from Auditorium	**3' 7¾"**	(1.08M)
Depth of Pit from Stage Floor	**7' 6"**	(2.29M)

Distances

Projection Booth to Curtain Line	**119'0"**	(36.27M)
Projection Booth to Movie Screen	**127'4"**	(38.81M)
Balcony Edge to Curtain Line	**80' 4"**	(24.48M)
Balcony Edge to Movie Screen	**89'4"**	(27.22M)
Balcony Edge to Cyclorama	**109'**	(33.24M)
Center Vom Projection Platform to Curtain Line	**93'9"**	(25.58M)
Center Vom Projection Platform to Movie Screen	**104'4"**	(31.08M)
Center Vom Projection Platform to Cyclorama	**127'8"**	(38.91M)
Lighting Throw from First Beam	**71'**	(21.6M)
Lighting Throw from Second Beam	**85'6"**	(26M)
Box Boom to Center Line	**75'0"**	(22.86M)

All distance measurements are averages measured to stage floor at centerline.

Seating Capacity

Maximum capacity including 2 wheelchair spaces	1,836
Maximum capacity including 7 wheelchair spaces	1,822

Note: reduce total count 66 seats for stage use of first stage/pit extension and 112 seats for stage use of both stage/pit extensions.

Dressing Rooms

Total capacity: 56

Stage Level: One dressing room for 1 or 2-person with disabled access toilet, sinks and shower.

Lower Level: Two 7-person rooms with sink and toilet. Two 6-person rooms and two 14-person chorus rooms, each with toilets, sink and shower.

Laundry Facilities: Washer, dryer, iron, ironing board and clothes steamer located on Lower Level.

Road Manager's Office

Adjacent to stage. Equipped with two local access telephone lines.

Rehearsal Room

Width **74'** (22.6M)
Depth **48'** (14.6M)

Located two floors below stage level. Soft fir floor on 2" sleepers covered with 1/8 Masonite. Mirrors on west wall, ballet barre on east wall. Wheelchair accessible restroom. Loading access through basement loading dock or freight elevator.

Audio/Video

Full house sound system with left, center, right Meyer line array. Yamaha PM1D 96 mixing console located at the rear of the orchestra. 2-Channel CLEARCOM headset communications system, paging system, dressing room monitors, Infrared hearing system, backstage video monitor, and video patch. Extensive microphone inventory.

Projection

One 20' high (6.1M) by 40' wide (12.2M) perforated front projection screen with full masking. Two Simplex XL 35mm projectors with 4500W Xenon lamp.
Dolby CP650D-EX Cinema Processor Dolby Digital Sound.

Symphony Shell

WENGER Designer Acoustical Shell walls and SECOA Acoustical ceiling. The shell consists of two

ceilings with integrated lighting and seven mobile tower units adaptable for soloists, chamber, or full size orchestra.

Equipment
Orchestra chairs, music stands and stand lights, 4 x 8 stock risers in 8", 16", 24", 36" heights, choral risers, WENGER roll away acoustical walls, HARLEQUIN dance flooring and lecterns.

Lighting
ETC Obsession II 1535, Expression 250 Channel & Express 125 Channel
428 2.4kw and 24 6.0kw dimmer/circuits.
Standard house plot in place. Consists of a three color back wash, two color pipe ends, two color front wash and several specials. Cyc lights are 4 color top and three color floor.

Organ
Five-Manual, 104-rank pipe organ Ernest Skinner Opus 818 built 1930. Bombarde Division and Seismic Restoration in 1999 by Turner Organs
Please note the organ requires special permission to use.

Power
Company Switch: Two 400 amps/leg 3 phase disconnects with Cam-Loc connectors, & bare end connection located downstage right.
Secondary (audio) Switch: 100amps/leg, 3 phase camloc connectors located upstage right.

Stage Floor
The stage floor is constructed using a sprung technique with 2"x 3" sleepers over 3/8" x 3" square neoprene waffle pad on 16" centers. One layer of tongue and groove 11/8" plywood is covered with a layer of ¾" Plyron painted black. The floor is excellent for dance. There are no traps in the floor.

Drapery/Rigging
49 line sets (34 single purchase counterweight, 11 double purchase counterweight & 4 motorized) which fly out to an average height of 50' (15.2M). Complete set of black velour legs and borders, mid- and upstage travelers. Flat, seamless plastic GARRETS "Opera" cyclorama. Act curtain rigged to fly or travel.

Quarter-inch scale ground plan & section available upon request.

PDF Ground plan at http://uclalive.org/RoyceGroundPlanv122008.pdf

PDF Section at http://uclalive.org/roycesectionv122008.pdf

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PARKING AND DIRECTIONS

All parking **is by permit only**. Daily permits can be purchased at the parking kiosk located at the corner of Westwood Blvd. and Sunset Blvd.

Additional kiosks throughout the campus
Large group and special vehicle parking must be arranged in advance

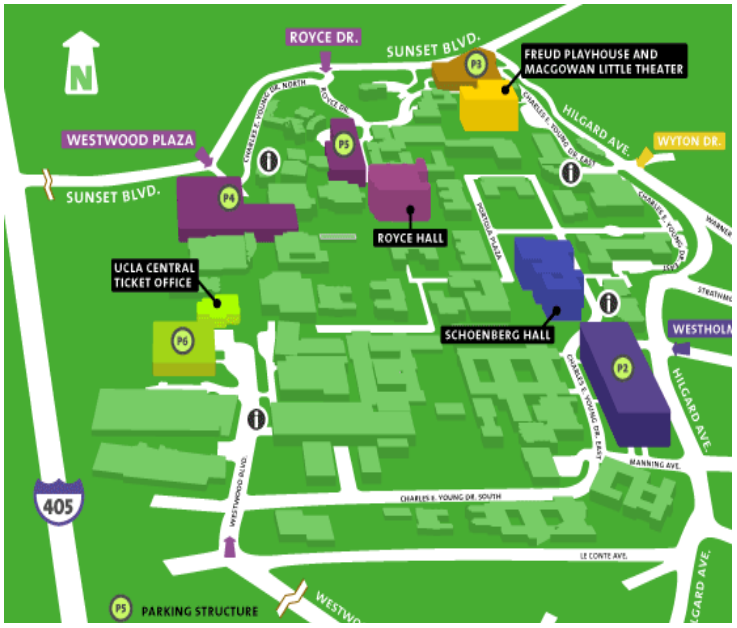
ALL tickets for parking violations are the responsibility of the individual.

LOADING ACCESS

The Artist's Entrance and stage level loading dock are located at the end of Royce Drive. The loading dock can accommodate two 53' trucks. The access road has a height restriction of 15'9" and all vehicles in excess of 24' in length must back from the intersection of Royce Drive and Charles Young Drive.

Loading Permits are required at all times and can be obtained from UCLA Performing Arts.

ALL DELIVERIES AND PICK-UPS MUST BE PRE-ARRANGED WITH THE TECHNICAL MANAGER: (310) 794-4048



DIRECTIONS TO LOADING DOCK

From Downtown Los Angeles:

Distance: 15 miles

Santa Monica Freeway (10) west to the San Diego Freeway (405) north. Exit Sunset Blvd. going east (right). Turn right onto Royce Drive (about 1 ¾ miles). Follow signage to **Upper Loading Dock** & the Artist's Entrance or park by permit in Structure 5.

From L. A. International Airport:

Distance: 10 miles

Century Boulevard east to the San Diego Freeway (405) north Exit Sunset Blvd. going east (right). Turn right onto Royce Drive (about 1 ¾ miles). Follow signage to **Upper Loading Dock** & the Artist's Entrance or park by permit in Structure 5.

From the San Fernando Valley:

Distance: 9 miles

San Diego Freeway (405) south. Exit Sunset Blvd. going east (left). Turn right onto Royce Drive (about 1 ¾ miles). Follow signage to **Upper Loading Dock** & the Artist's Entrance or park by permit in Structure 5. Google map **UCLA Royce Hall**

AUDIO

HOUSE SPEAKER SYSTEM

Flown line array: left center and right of Proscenium Arch, consisting of:
Left and Right Array – 8 per side Meyer self powered 3 way Mica loudspeakers 100º
Center Array – 3 Meyer self powered 4 way Milo Loudspeakers 120º
Left and Right arrays can be ground stacked. Note additional labor charge to ground stack.

Front Fill: 5 Meyer self powered M1D loudspeakers

Subs: 4 Meyer self powered 700HP sub-bass loudspeakers

Side Fills Under and Upper Balcony Side: – 4 Meyer self-powered UPJ-1P

Surround: 4 EAW JF50s located rear of orchestra level.

Speaker Management System is two Meyer Galileo

House Speaker Configurations

The Normal configuration of the Royce sound system:

- All Flown – consisting of eight Hung box Meyer Mica Array left and Right, with 5 zones of control and a center array of three Meyer Milo-120 with 2 zones of control.

Alternate configurations include:

- Ground Stack – consisting of a six box Meyer Mica Array left and right with 3 zones, on rolling bumpers a center array of three Meyer Milo-120 with 2 zones of control.

- Split - consisting of a three box hung Meyer Mica Array left and right feeding the balcony with 2 zones and a Five box stacked Meyer Mica Array Left and Right for the Orchestra, with three zones of control, a center array of three Meyer Milo-120 with 2 zones of control.

- Cinema – consisting of a Five hung box Mica array and one M1D on the bottom with four zones of control for Left and Right and a six hung box Mica array with 3 zones of control for Center. One Meyer 700HP sub is used at center. Surrounds currently consist of Four EAW JF 50 speakers mounted two rear orchestra left and two rear orchestra right. Two EAW 260 mounted rear balcony, one rear left one rear right. To meet academy standard additional boxes would need to be rented for surround. The Dolby CP650D-EX processor is both analog and digital.

While the All Flown configuration is the house standard, there maybe times when one of the alternates would be more appropriate for your show. The Ground stack set up brings the image down to eye level, but does leave the side balcony slightly out of the image. The Split configuration gives the balcony the same image as All flown while giving the Orchestra a more grounded imaged.

All four configurations have been tuned to give the audience a good representation of your show. Additional labor charges may apply for one of the alternate configurations.

STAGE MONITOR SYSTEM

Four Meyer UM-1P : Narrow Coverage Stage Monitor self powered
Two Meyer UM-100P : Wide Coverage Stage Monitor self powered
Four EAW KF650 Bi-amp cabinets for side fill.

Six Electro Voice S200 speakers can be powered by twelve 8-ohm monitor (fold-back) outputs onstage. There are four stage-right, four upstage-center and four stage-left (SPEAKON/NL4 connectors) – each patchable to a BGW 350 Stereo Amplifier in the Amp Room and controlled from front-of-house mixing position. **On-stage monitor mix systems require additional equipment rental.**

FRONT-OF-HOUSE MIXING POSITION

The house mix position is an open platform in the rear of the house, left of center, on the main floor.

It includes:

It includes: One **YAMAHA PM1D** Version 2 96 channel digital control console.

- 1 control surface with a total of 48 mono and 4 stereo channels on each of two layers – 96 mono and 8 stereo channels total using the console's flip switches.
- All controls for input gain, EQ, compressors, noise gates, delay, and send level etc for the selected channel are accessible via analog-style controls.
- Each input channel has HPF+4 band parametric EQ (LPF/HSF selectable 1band, LSF selectable 1band)
- 8 ea built-in effects engines
- 24 ea 31 band graphic equalizers
- 48 Fully assignable Mix groups and 24 matrix bus control each with parametric EQ and delay.
- 32 assignable analog outputs Output level 24/18/15dB selectable.
- 12 DCA with DCA mute, DCA cue/solo
- 1 Mix and Processing Engine with the optional Input Processing Board for 96 channels.
- LCD Display
- 1000 scene memory
- File storage via a PCMCIA memory card. Maximum 512KB

FRONT-OF-HOUSE RACKS:

Comprehensive patch bay
1 – YAMAHA AI8 with 16 mic line inputs
1 – YAMAHA AO8 with 32 line outputs
ASHLY PROTEA 4.24G 8-ch Digital EQ, Delay & Comp/Limiter
2 – YAMAHA SPX 990 Digital Audio Effects
3 – APHEX 651 Expressor Single-Channel Compressors
2 – KLARK TEKNIK DN 360-B Dual-Channel 1/3 Octave Graphic EQ (2 ch are L&R stacks)
1 – TASCAM 112RMA II Cassette Deck
2 – TASCAM CD-01U Professional CD Player
4 – KLARK TEKNIK DN 405 Parametric EQ
1 – UREI 537 graphic EQ

ONSTAGE RACK: Stage Left

Yamaha PM1D engine, 96 channel version 2.3
2 – Meyer Galileo Loudspeaker Management Systems
1 – Yamaha AI8 32 channel Mic inputs 1-32 normal
1 – Yamaha AI8 32 channel portable Mic inputs 33 - 64 normal
1– Yamaha DIO8 with 8 AES/EUB inputs, 8 AES/EUB outputs to line array
- Includes 16 analogue inputs and 16 analogue outputs

Patch Bay / for analogue inputs /outputs XLR's on front of rack
Speaker Management Patch Bay
- Left, Center and Right Array
- Side & Front Fill
- Under &Upper balcony & surround
- 70 volt

OTHER EQUIPMENT

2 – OTARI MX 5050 ¼" tape decks
1 – NAKAMICHI cassette tape deck
1 – CREST CENTURY Series 24 channel GTx Console

Additional labor charges may apply to set up the Crest console.

AMP ROOM

Speaker Patch Bay
16 – BGW 350A Stereo Amplifiers for monitors
Video Patch Bay

MICROPHONE INPUTS – Hardwired to Patch bay at sound console

Stage Right	1 - 16	Anti Pro Catwalk	80 - 83
Stage Left	25 – 48	AP Stereo	84/85, 86/87
Up Stage Center	49 – 72	Acoustic Gallery HR	88 - 93
Orchestra Pit	49 – 72 duplicated	Acoustic Gallery HL	94 - 99
SL Proscenium Catwalk	73 – 76	Organ	100 - 103
		Rehearsal room	104 - 106

SPEAKER OUTPUTS [Speakon NL4MP]

Stage Right	1 – 4	Up Stage right	19 – 20
Stage Left	5 – 8	Acoustic Gallery House Right	21 – 26
Orchestra Pit & UP Center	9 – 12	Acoustic Gallery House Left	27 – 32
Stage Left Wall	13 – 14	Organ loft	33 – 34
Stage Right Pin rail	15 – 16	West Lobby	35 – 38
Up Stage Left	17 – 18		

SURROUND SOUND [Speakon NL4MP]

Orch level under Balcony	1 – 11	Balcony rail House left	18 – 20
Balcony rail House Right	12 – 14	Top of Balcony exit doors	21 – 26
Balcony rail Center	15 – 17		

RETURNS Hardware to patch bay at Sound console

Stage Right	1 – 4 Male XLR	5 – 8 Female XLR
Stage Left	9 – 12 Male XLR	13 – 16 Female XLR
Up Stage wall		17 – 24 Female XLR

MICROPHONES

Condensers:

- 5 – AKG 460
- 2 – AKG 414B/XLS stereo pair
- 2 – CROWN PZM
- 4 – CROWN PCC160
- 4 – EV CS
- 4 – EV1776
- 2 – SHURE BETA 87A
- 4 – SHURE BETA 98DS
- 2 – NEUMANN KM184

Dynamics:

- 4 – SENNHEISER MD 421
- 10 – SHURE SM 58
- 5 – SHURE BETA 58A
- 14 – SHURE SM 57
- 4 – SHURE BETA 57A
- 1 – SHURE BETA 52
- 4 – EV RE10
- 1 – SHURE BETA 91
- 1 – AKG D112

Direct Boxes

- 5 – PROCO passive direct boxe
- 8 – COUNTRYMAN active direct boxes

Wireless:

- 1 – Dual Channel SHURE UR4D Band G1
- 2 – SHURE BETA 58
- 2 – SENNHEISER MKE2 OMNI LAVS

MISCELLANEOUS SYSTEMS

SENNHEISER infrared headset system for the hearing impaired
Two-channel CLEARCOM headset system with
8 two-channel belt packs and 6 single-channel belt packs
Lobby, Dressing and Green Room audio monitors for program
Lobby & Green Room show program & video monitors
Dressing Room paging system

CLOSE CIRCUIT VIDEO DISTRIBUTION

4 each video distributed amps used for backstage and lobby monitors.
102 composite video lines located throughout the building patchable from the Amp Room 4th floor.
RGBHV component video lines patchable between - projection booth, mid balcony, balcony projector platform, Upstage Center, Stage Right, and Rear of House at sound mix position.
Plasma monitors are permanently mounted in the Checkerboard and West Lobby, Green Room, Stage Manager and shop areas, while back stage are portable video monitors.
Extron switcher located at the stage manager's desk provides an 8 x 8 matrix with programmable presets allowing up to 8 inputs to be assigned to 8 outputs both audio and video.
House Inputs include:

1. Two cameras one fixed and one remote controlled providing feed to FOH as well as Production monitors.

2. A computer with DVD and power point located in the Light booth and provides pre-show information to any monitor via composite video.
3. Additional input such as company DVD located back stage.
4. Panasonic DMR-EZ485VK DVD recorder/ Player with VHS, SD memory card capabilities.

House Outputs include:

- Four VDA amps patchable from the 4th floor Amp Room.
- Standard patch is:
  - VDA – 1 Checkerboard, with audio
  - VDA – 2 Production
  - VDA – 3 West lobby with audio
  - VDA – 4 Donor lounge

MOVIE PROJECTION

One 20' high (6.1M) by 40' wide (12.2M) perforated front projection screen with full manual masking. Permanently hung on line-set 13.

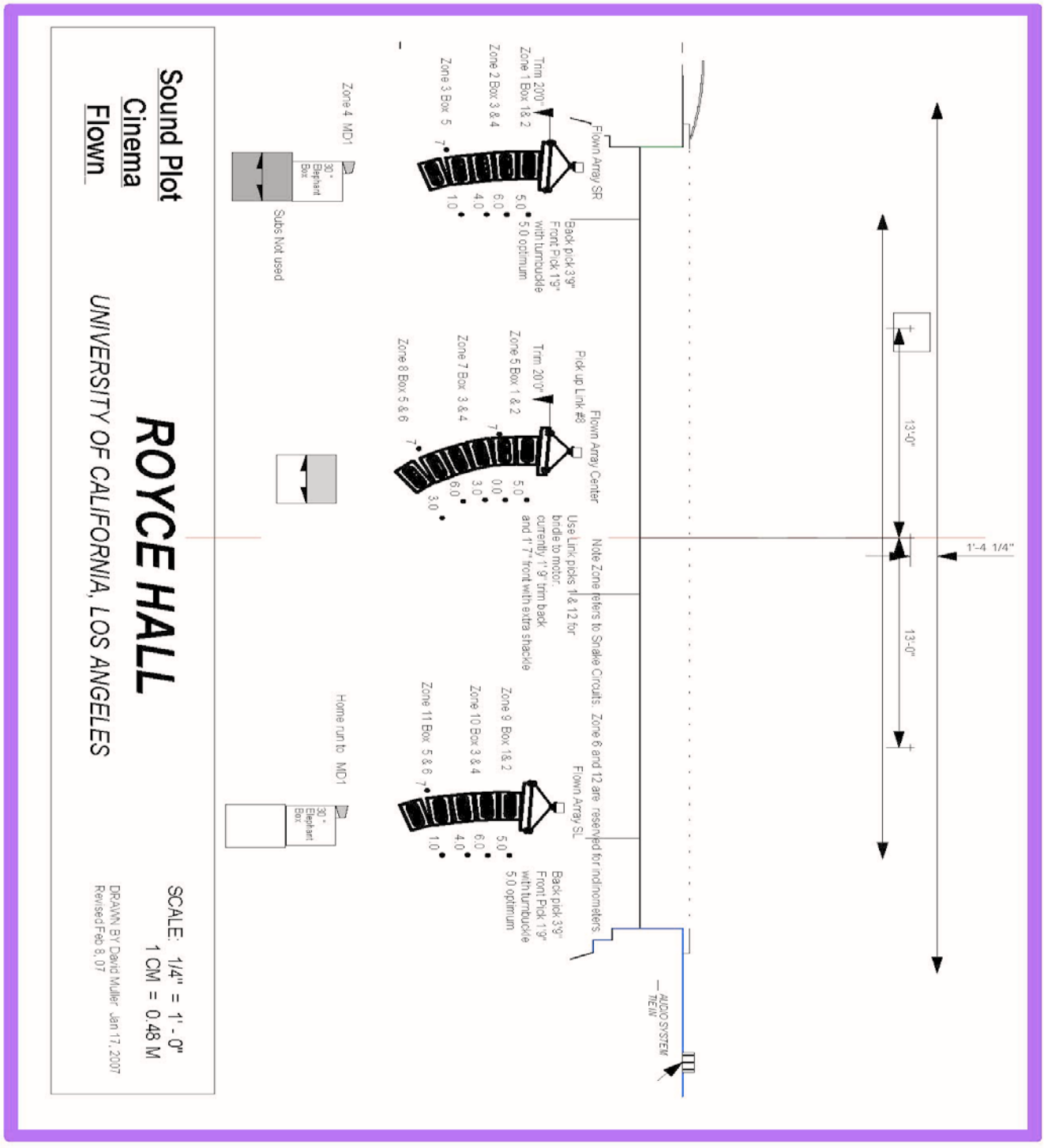
Two Simplex XL 35mm with 4500W Xenon lamp, and TB Woods Controller to easily program each projector individually for accurate speed control from 16 to 24 frames per second. Projectors have been upgraded with Simplex 5 Star Sound Reproducer.

Dolby CP650D Digital Processor with Dolby 702 Digital readers.

Meyer Mica rig can be hung as a L C R array upstage of the movie screen. House Surround 4 EAW JF50s located rear of orchestra level. Additional speakers rentals are needed to provide an academy quality full surround sound system. See alternate configurations Page 6 for info. See next page for diagram.

Current lens inventory:

Purpose	Aperture size	Manufacture / year purchase	Projection Size
Silent Film	1.33s	120mm Schneider 03/ 08	23’ 5”W x 21’0”H
Silent Film	1.37	105mm Isco 1960	
European	1.66	90mm Isco 1960’s	
Standard	1.87	80mm Cinelux Premier Schneider June 08	40’0”W x 20’0”H
Panascope	2.35	Panavision telephoto 1966 Prime 135 Isco 10/06	40’0”W x 16’ 0”H



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DRAPERY AND RIGGING

FLY SYSTEM

LINE SETS:	Total 49- 34 single purchase counterweight, 11 double purchase counterweight, 4 motorized. Seven lift lines per set. Upper and lower locking rails.
FLYSPACE:	Grid height - 55' (16.76M) High trim - varies 47’7” to 52’6” most trim 51’8” (15.24M)
BATTENS:	Diameter – 1 ½" (3.8CM) Average Length – 58'0" (17.67M) long with 3'0" (.91M) extensions at both ends
ARBOR CAPACITY:	Average 1200 lbs. (544.3kg) 50,000 lbs. (2268kg) available weight
DISTANCES:	Curtain to first available line set – 4'2" (1.26M) Curtain to last available line set – 30' 1" (9.16M)
HEIGHTS:	Heights of fly floor - 21' 9" (6.62M) Height to loading gallery – 47'5" (14.45M)
ADDITIONAL EQUIPMENT:	Parts for spot lines Miscellaneous rope and spansets
NOTE:	Grid deck is steel grate. Double purchase sets are operated from fly floor only.

DRAPERY

ACT CURTAIN:	Light tan, 60% fullness, lined, flies or travels manually
TRAVELERS:	Two in black velour, 30' H x 60' W
MASKING LEGS:	Five pair in black velour, 30' H x 15' W, flat
MASKING BORDERS:	Five in black velour, 15' H x 55' W, flat
BLACK OUT DRAPE	One in black velour 26’ 0”H x 48’0”W.
CYCLORAMA:	One seamless plastic GERRETS “Opera” cyc 30' H x 55' W
SCRIMS:	One black Sharkstooth 26’H X 55’W and one 28’H x 55’ W
	One white seamless Sharkstooth scrim 30' H x 60' W
IN ONE DRAPE	Two Brick Super-Vel 26’ H x 25’ W sewn 75% fullness
BOTTOM PIPE:	Approximately 110' of ½" galvanized water pipe in five and ten foot sections.

(Line Plot next page)

ROYCE HALL LINE PLOT

Line Numbers	Distance from Plaster line	Maximum High Trim	Height 2 Pipe From Floor	Arbor Height	Load Description / House Trim	Remarks
1	9"	51' 8"	4' '7"	8' 0"	Main Curtain	Non-removable
2	1' 2"	51' 8"	4' '7"	8' 0"	Portal Border / 20'0"	Black Velour 15'H x 60' L
3	1' 7"	52' 0"	4' 11"	8' 0"	Portal Legs	Black Velour 25'H x 15' W
*4	3' 0" 3'7"	46' 5" 47' 7.5"	3'11.5" 5' 3"	10' 0"	1st Electric / 25'6 1A Electric / 26'6"	Motorized Counterweight "bridge" Non-removable with focus chair
5	4' 2"	51' 8"	4' '7"	8' 0"		
6	4' 7"	51' 8"	4' '7"	8' 0"		
7	5' 2"	51' 8"	4' '7"	8' 0"		
**8	5' 10"	51' 8"		15' 3"	D.S. Orch Shell Ceiling	Non-removable;14in deep in stored pos
9	7' 4"	51' 8"	4' '7"	8' 0"	1st Border / 22"0"	
10	7' 10"	51' 8"	4' '7"	8' 0"	1st Legs	
11	8' 2"	51' 8"	4' '7"	8' 0"	2nd Electric / 25'6"	
12	9' 6"	53' 3"	8' 3"	10' 0"	Black Out	26' 0" H X 48'0" Wide, no fullness
13	9' 10"	51' 8"		8' 0"	Projection Screen	Non-removable, bottom out-trim is 28'5"; 9" deep
14	10' 2"	51' 8"	4' '7"	8' 0"		
15	10' 8"	51' 8"	4' '7"	8' 0"		
16	11' 1"	51' 8"	4' '7"	8' 0"	3rd Electric / 28'9"	
17	11' 8"	51' 8"	4' '7"	8' 0"		
18	12' 2"	51' 8"	4' '7"	8' 0"		
19	12' 8"	51' 8"	4' '7"	8' 0"		
20	13' 2"	51' 8"	4' '7"	8' 0"		
21	13' 8"	51' 8"	4' '7"	8' 0"	2nd Border / 22"0"	
22	14' 2"	51' 8"	4' '7"	8' 0"	2nd Legs	
23	14' 11"	49' 8"	4' '7"	10' 0"	Mid Stage Traveler	
24	15' 7"	51' 8"	4' '7"	8' 0"		
25	16' 2"	51' 8"	4' '7"	8' 0"		
26	16' 7"	51' 8"	4' '7"	8' 0"	4th Electric / 26'5"	
27	17' 4"	49' 11" 48' 5"	4' 0" 3' 3"	10' 0"		1' 6" ladder truss upper pipe lower pipe
**28	18' 7"	49' 8"		15' 3"	U.S. Orch Shell Ceiling	Non-removable; 14" deep in stored pos.
29	19' 11"	51' 8"	4' '7"	10' 0"		
30	20' 8"	51' 8"	4' '7"	8' 0"	3rd Border / 22'0"	
31	21' 2"	51' 8"	4' '7"	8' 0"	3rd Leg	
32	21' 8"	51' 8"	4' '7"	8' 0"		
33	22' 2"	51' 8"	4' '7"	8' 0"		
34	22' 8"	51' 8"	4' '7"	8' 0"		
35	23' 2"	51' 8"	4' '7"	8' 0"		
36	23' 8"	51' 8"	4' '7"	8' 0"	5a Electric / 27'6"	Par Pipe
37	24' 8"	51' 8"	4' '7"	10' 0"	5th Electric / 26'6"	
38	25' 8"	52' 6"	4' '7"	14' 2"		Double Purchase Set
39	26' 2"	52' 6"	4' '7"	14' 2"	4th Border / 22"0"	Double Purchase Set
40	26' 8"	52' 6"	4' '7"	14' 2"	4th Leg	Double Purchase Set
41	27' 2"	52' 6"	4' '7"	14' 2"	6th Electric / 27'9"	Cyc lights; Double Purchase Set
42	28' 2"	52' 6"	4' '7"	14' 2"		Double Purchase Set
43	28' 8"	52' 6"	4' '7"	14' 2"	Upstage Traveler	Double Purchase Set
44	29' 2"	52' 6"	4' '7"	14' 2"		Double Purchase Set
45	29' 8"	52' 6"	4' '7"	14' 2"		Double Purchase Set
46	30' 7"	52' 6"	4' '7"	14' 2"		Double Purchase Set
47	31' 0"	52' 6"	4' '7"	14' 2"		Double Purchase Set
48	32'7.5"	52' 6"	4' '7"	14' 2"		Double Purchase Set
49	33' 2"	50'2"	4' '7"		CYC / Orch Wall Storage	Motorized Garrets Plastic Opera Cyc

BACK WALL 33' 11" Battens are 58'0" x 1 1/2" Schedule 40 pipe with 7 lift lines Capacity approx 1200 lbs. Live load
* Motorized Assist 1st Elec has three arbors
** Motorized Assist Orchestra Shell linesets have double arbors

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LIGHTING AND ELECTRICAL

CONTROL BOARD

ETC- Obsession II 1500 V 5.1.1 ETCNet2 DMX Node V 4.0.6

A maximum of 1,000 cues, 250 groups, 100 effects and 2,000 macros
48 Overlapping pile-on Submaster with two pages of stored information provide instant access to 96 additive looks, inhibitive channel assignments or effects
Control of 1536 Dimmers or devices on 1536 channels. Dimmer Doubling available
Proportional dimmer soft patch
Cues and Effects may be played back on eight physical faders and 120 virtual faders
One hand held focusing remote
Both 3 ½" diskette and hard drive storage of show information
Multi user support
Fully operational ETCNET2 network with various remote stations located throughout the facility

ETC Expression Memory Control Console: 250 Channels Maximum

400 cues per show capacity
250 Channels 512 dimmers max
24 sub-masters with unique bump switches - 2 pages of subs
3 ½" disk storage
Proportional dimmer soft patch
One hand held focusing remote
Remote monitor

ETC Express Memory Control Console: 125 Channels Maximum

Maximum 600 Cues, 500 Groups, 100 effects and 2,000 macros

125 channels 1024 dimmers max
3 ½” disk storage
Proportional dimmer soft patch
Dimmer doubling Capability
24 sub-masters with unique bump switches 10 pages of subs

DIMMERS

428 ETC advance feature Sensor 2.4 dimmers stage use
55 ETC advance feature Sensor 2.4 dimmers dedicated to house lights
24 ETC advance feature Sensor 6K dimmers

CIRCUITS

428 20 AMP CIRCUITS

FRONT OF HOUSE		ONSTAGE	
Second Beam	35	First Electric	36
First Beam	35	Stage Left Drop boxes	60
Anti-proscenium	10	Stage Right Drop Boxes	60
Acoustical Gallery East	12	Stage Left Wall	12
Acoustical Gallery West	12	Stage Right Wall	12
Proscenium Window Stage Left	8	Backwall	16
Proscenium Window Stage Right	8	Up Stage Floor Pockets	4
Balcony Center	6	Apron Floor	8
Balcony Right	8	Orchestra Pit	4
Balcony Left	8	Stage Left Floor Pockets	32
Follow Spot Booths	4	Stage Right Floor Pockets	32
Second Floor Corridor	2	Grid	2
		Loading Gallery	2

24 60 AMP CIRCUITS

Acoustical Gallery East	2	First Electric	2
Acoustical Gallery West	2	Stage Left Wall	2
Balcony Center	2	Stage Right Wall	2
Balcony Right	2	Stage Left Drop Cables	2
Balcony Left	2	Stage Right Drop Cables	2
		Upstage Floor Pockets	4

AUXILIARY POWER

Company Switch:	Two 400 amps/leg, 3 phase, locates downstage right, accepts CAMLOC or bare end cable.
Secondary Switch:	100 amps/leg, 3 phase, camloc connectors, located upstage right

LIGHTING POSITIONS

SPOT BOOTHS	Average throw to centerline 128' (39.01M) Booths located approximately 25' (762M) left and right of centerline for: 2 Strong Gladiator II 2.5 Kw Followspots 2 COLORTRAN Colorarc 2000 2kw Followspots
SECOND BEAM:	Average throws to centerline - 84' (25.6M) Seven bays, each 5'6" (1.67M) wide contain: 21 -1kw 10 º COLORTRAN ERS
FIRST BEAM:	Average throw to centerline - 70' (21.33M) Seven bays, each 5'6" (1.67M) wide, four fixtures per bay, totaling: 28- 1kw 28 ea 10º ETC SOURCE 4 with custom 10” lens tube

ACOUSTICAL	Average throw to centerline - 75' (22.8M)
GALLERIES (SL & SR)	1 permanent Box position is located in the Galleries L & R. 6 - 750W Source 4 19 º 2 - 1kw 6 x 16 & 1 750W 6 x 9 Altman ERS Architectural lighting to light Proscenium
ANTI-PROSCENIUM	Down light position for apron when pit is at stage level for orchestra shell. 10 - SourceFour 575W Par's
PROSCENIUM	Average throw to centerline - 28' (8.53M)
WINDOWS	Eight foot tall booms sixteen feet above stage floor Hanging position restricted by door rigging
FIRST ELECTRIC	Motorized Bridge Lower pipe Elec 1 55' (16.76M) in length. Upper pipe, Electric 1A is 58'0" (17.67M) in length. Restricted Hanging Position Maximum out trim is 50'0" (15.24M) Focus chair & truss on downstage side of truss
ROLLING BOOMS	Total of eight -at 14' (4.26M) Standard hang: 1 each –Source 4 26º, 1 each 6 x 12, 3 each Source 4 36º 1 each, 6 x 9 ERS
CYC ELECTRIC	Located on Line 41. Contains four color washes of Primary Red, Blue, Green and Amber in: 12 Strand Iris 2's (5912) 1kw per window to front light cyc. Located against back wall 9 - L&E Liberty Ground Row 3 circuit normally against back wall and focused down stage to back light bottom of cyc.

PDF Ground plan at http://uclalive.org/RoyceGroundPlanv122008.pdf

PDF Section at http://uclalive.org/roycesectionv122008.pdf

HOUSE HANG INCLUDES

INSTRUMENTS

56 – ETC Source Four 26º 575W 8 dedicated to rolling booms
53 – ETC Source Four 36º 575W 24 dedicated to rolling booms
12 – ETC Source Four 19º 750W dedicated to Box Boom
8 – Altman 6 X 9 750W dedicated to rolling booms
8 – Altman 6 X 12 1K dedicated to rolling booms
15 – Par 64 Wide 1K
8 – Par 64 Med 1K
18 – Par 64 Narrow 1K
30 – Strand Century 6" Fresnel 1k with Barn doors
12 – Inero Iris Far Cyc Units 2 circuit
1 – 6 x 12 Altman 1k Iris
9 – L & E 3 circuit floor cyc units

ADDITIONAL EQUIPMENT

24 – Altman 6 X 9 750W
32 – Altman 6 X 12 1K + 1 Iris Unit
32 – Altman 6 X 16 1K + 2 Iris Unit
3 – Par 64 Wide 1K
8 – Par 64 Medium1K
18 – Par 64 Very Narrow 1K
25 – Strand Century 6" Fresnel 1k
8 – Inero Iris Far Cyc Units 2 circuit

ACCESSORIES

2 – ETC Source 4 custom Barrels 10º
10 – ETC Source 4 Barrels 50º
8 – ETC Source 4 Barrels 36º
10 – ETC Source 4 Barrels 26º
10 – ETC Source 4 Barrels 19º
30 – 6" Barn Doors
10 – Pattern Holders for 10º Colortran
50 – Pattern Holders for Altman Ellipsoidal
34 – Pattern Holders for ETC Source 4 Ellipsoidal
2 – Glass Pattern Holder for ETC source 4
10 – Drop in Iris for ETC Source 4 Ellipsoidal
4 – Source 4 Top hats full
4 – Source 4 Top hats short
4 – 7 ½" Top hats (short)
11 – 7 ½" Top hats (Full)
64 – 18" Side arms 48 dedicated to house booms
8 – 24" Side arms
36 – 1.25” pipe clamps (roto lock)
10 – 1.5” pipe clamps (roto lock)
6 – 1.25- 1.5” swivel pipe clamps (cheeseboroughs)

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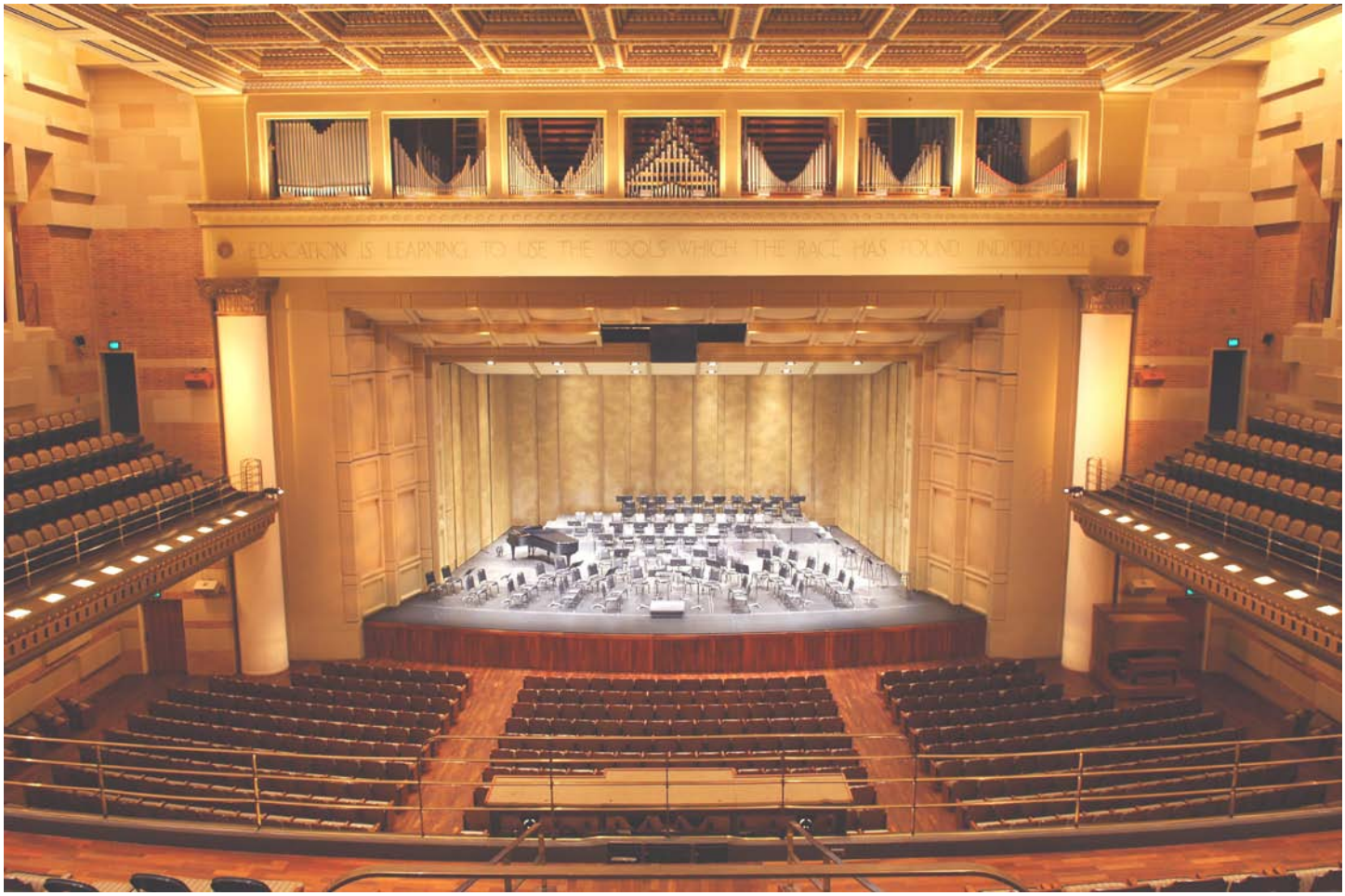
SYMPHONY SHELL

Description
The symphony shell is comprised of seven WENGER Designer Series acoustical shell towers 23' tall and two SECOA acoustical ceiling sections.

The downstage or first ceiling can play separately to form a half-stage symphony shell. It contains three rows of ETC Source Four par lights for a total of 17 fixtures. In playing position its downstage edge is approximately 2'8" from the edge of the apron and extends upstage for a total of 14'8".

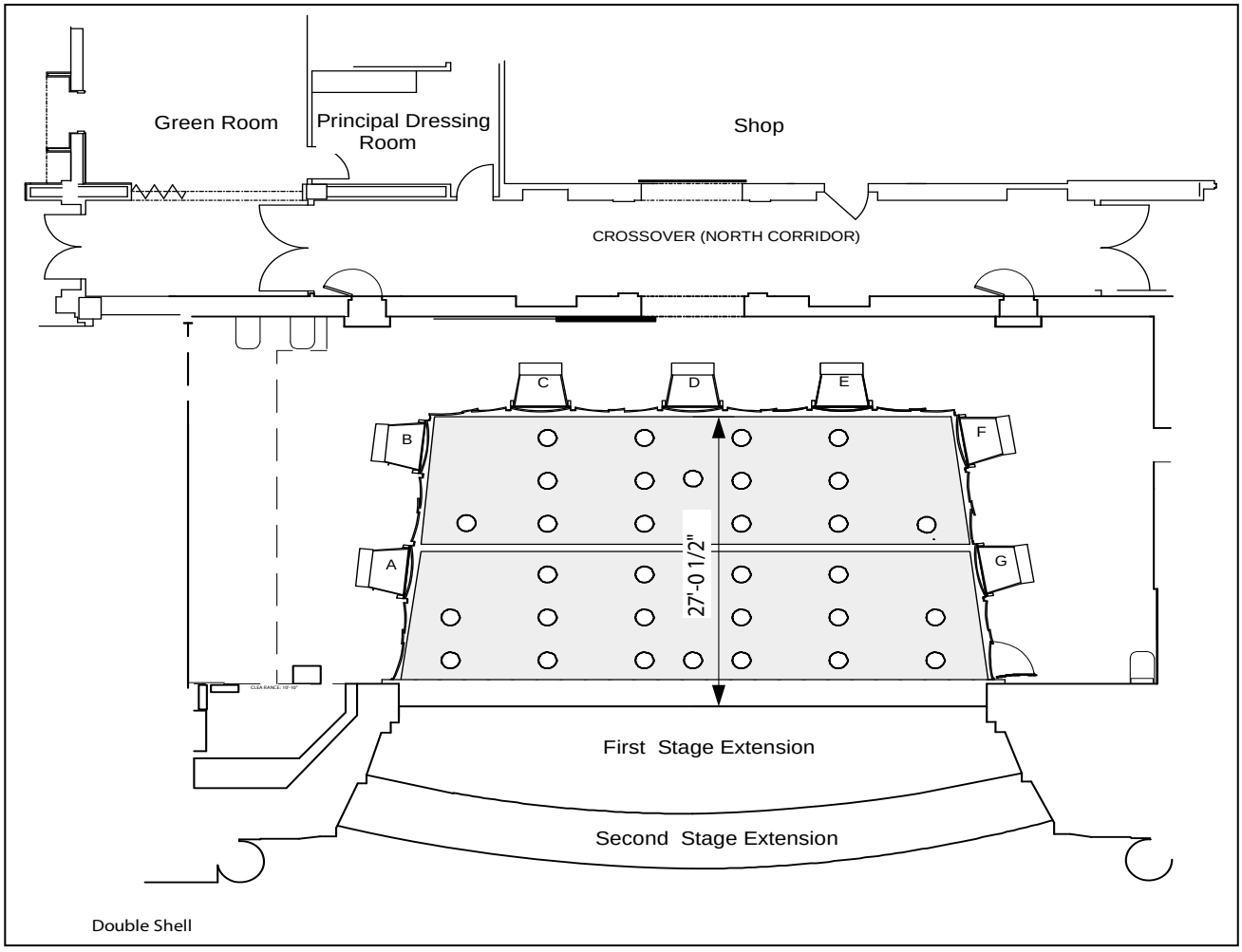
The upstage or second ceiling is used for the full stage symphony shell and contains three rows of ETC Source Four par lights for a total of 13 fixtures. In playing position its downstage edge is approximately 15'2" from the edge of the apron. Total depth from edge of stage to back wall 27'8".

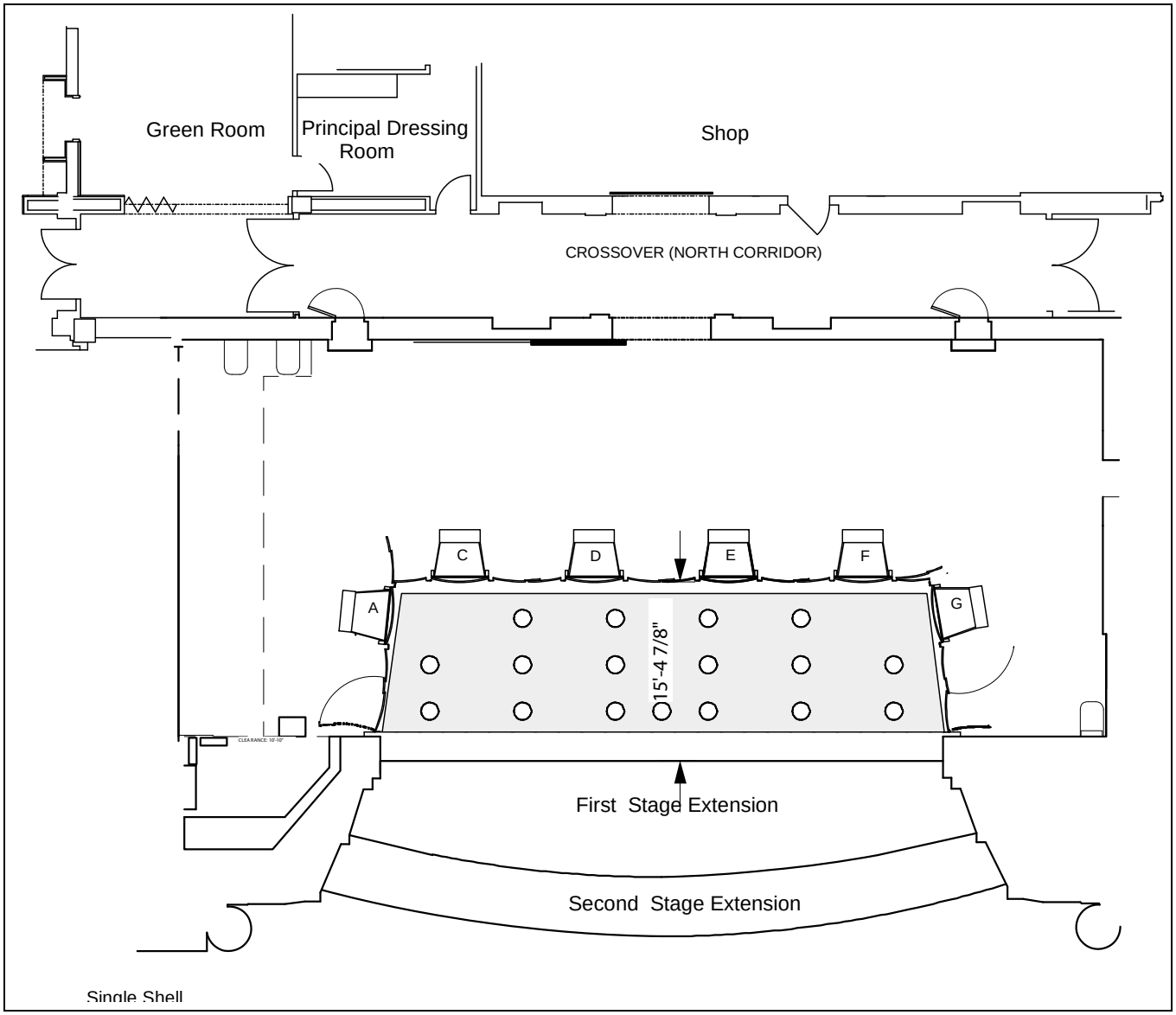


SHELL CAPACITY

Single Symphony Shell:	600 square feet Suggested for soloist and small chamber groups.
Double Symphony Shell:	1200 Square feet Accommodates 60 to 80 musicians
Double Symphony Shell plus First Stage Extension	1550 square feet Accommodates 80 to 100 musicians
Double Symphony Shell plus Second Stage Extension	1800 square feet Accommodates 100 to 130 musicians

Use of the first stage extension requires the removal of audience rows AA through DD 66 seats. Use of the second stage extension requires the removal of audience rows AA through FF 112 seats.





EQUIPMENT INVENTORY

Platforms

Wenger Versalite	25 – 4’ x 8’ lids
Legs	90 – 8”
	30 – 16”
6 legs per platform	90 – 24”
	60 – 32”
	12 Adjustable 3’7”+/-2”
Conductor stand	1
Conductor Podium	1

Orchestra Stands	100
Stand lights	40
Cello podium	2

Orchestra chairs

17.5” height	100
18.5” height cello	24

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ROYCE HALL GRAND ORGAN

Skinner Organ Company
Boston, Massachusetts
Opus 818 - 1930
Bombarde Division and Seismic Restoration By
Robert M. Turner, 1998
(Solid-state equipment installed, 1982)

GREAT ORGAN (Manual II)

16' Diapason
16' Bourdon (Pedal)
8' First Open Diapason
8' Second Open Diapason
8' Third Open Diapason
8' Bourdon
8' Flûte Harmonique B
8' Harmonic Flute (Enclosed)
8' Gambe
8' Gemshorn (Enclosed)
4' Octave
8' Flûte Octaviante B
4' Flute (Enclosed)
2 2/3' Twelfth
2' Fifteenth
V Harmonics
V Cornet B
VII Fourniture B
V Mixture B
16' Bombarde B
16' Contra Tromba (Enclosed)
16' Trompette Harmonique
8' Tromba (Enclosed)
4' Clairon Harmonique
4' Octave Tromba (Enclosed)
Chimes (Solo)
MIDI 1, 2, 3

SWELL ORGAN (Manual III)

(enclosed)
16' Bourdon
8' Diapason
8' Rohrflöte
8' Gamba
8' Viola Celeste II
8' Salicional
8' Voix Celeste
4' Octave
4' Flûte
4' Violina
2' Flautino
V Cornet
V Mixture
III Carillon
16' Double Trumpet
8' Trumpet
8' Cornopean
8' Vox Humana
4' Clairon
Tremolo
Swell Sub
Swell Unison Off
Swell Super
MIDI 4

CHOIR ORGAN (Manual I)

(enclosed)
16' Contra Gamba
8' Geigen Diapason
8' Orchestral Flute
8' Viola
8' Viola Celeste
8' Kleine Erzähler II
4' Traverse Flute
4' Gambette
2 2/3' Nazard
2' Piccolo
1 3/5' Tierce
1 1/3' Larigot
8' Clarinet
8' Orchestral Oboe
Tremolo
Harp
Celesta
Choir Sub
Choir Unison Off
Choir Super
MIDI 5

SOLO ORGAN (Manual IV)

(enclosed)
8' Flauto Mirabilis
8' Gamba
8' Gamba Celeste
8' Ethereal Celeste II
4' Orchestra Flute
1 3/5' Tierce
8' Tuba Mirabilis
8' French Horn
8' English Horn
4' Tuba Clarion
Chimes
Harp (Choir)
Celesta (Choir)
Solo Sub
Solo Unison Off
Solo Super
MIDI 6

BOMBARDE ORGAN (Manual V)

8' Flûte harmonique
8' Gambe
4' Flûte Octaviante
V Cornet
V Mixture
VII Fourniture
16' Bombarde
8' Trompette Harmonique
4' Clairon Harmonique
16' Tuba Magna (tc)
8' Tuba Magna
4' Tuba Magna
MIDI 9

PEDAL ORGAN (Expressive)
32' Diapason (Resultant)
32' Sub Bass (1-5 Resultant)
16' Diapason
16' Contra Bass
16' Metal Diapason (Great)
16' Bourdon
16' Contra Gamba (Choir)
16' Soft Bourdon (Swell)
8' Octave
8' Principal
8' Flute
8' Flute Harmonique B
8' Soft Flute (Swell)
8' Gamba (Choir)

4' Flûte Octaviante
4' Soft Flute (Swell)

2' Piccolo (Swell)
V Harmonics
VII Fourniture
V Mixture
32' Bombarde
16' Trombone
16' Bombarde
16' Contra Tromba (Great)
16' Double Trumpet (Swell)
8' Tramba
8' Trompette harmonique B
8' Trumpet
4' Clarion
4' Clairon harmonique B
8' Tuba Magna B
Chimes (Solo)
MIDI 7, 8

Skinner Organ 80 ranks 5,185 pipes
Bombarde Division: 24 ranks 1,404 pipes
Total: 104 ranks 6,589

Five Manual Console: Robert Turner Organs
Expression pedals for Enclosed Great, Choir, Swell, Solo
Adjustable crescendo pedal 4 levels
SSL capture system combination action with 64 levels
22 general pistons 1-20 manual pistons 1-16, 21, 22 toe pistons
8 Divisional pistons for each manual 8 Divisional pedal pistons
6 Divisional toe studs
Standard non programmable sequencer is the default for 22 Generals
Programmable Sequencer with display
Next and Previous pistons and toe studs for list sequencing
Reversible pistons and toe studs for manual/ pedal couplers
Toe levers for 32'stops and Tutti
Bombarde / Solo transfer
Great / Choir transfer
MIDI interface
MIDI 1 in / out / through for keyboard information only
MIDI 2 - out all information keyboards / stops / Expression shutters

1 = Bombarde
2 = Solo
3 = Swell
4 = Great
5 = Choir
6 = Pedal

Record Playback sequencer Portfolio
Adjustable bench

HISTORICAL INFORMATION

The Royce Grand Pipe Organ is here due in large part because of the generosity of the Harvey Mudd Family and the vision of the University Provost Ernest Carroll Moore. Provost Moore enlisted Harold Gleason to design and install the instrument. The original side chambers were too small to house the organ as designed by Gleason and he persuaded the architects to allow the pipes to be placed over the proscenium arch. Installation and tuning was completed in the summer of 1930 and the inaugural concert was given by Gleason on Sept 9, 1930.

Alexander Schreiner was the first University Organist and gave tri-weekly organ concerts. Thomas Harmon who assumed the position of University Organist supervised the first renovation in 1969, which included replacing the original Skinner Console with a M. P. Mőller. Upon completion of this renovation Schreiner was invited to perform the inaugural concert.

In 1980 the blower room located in the basement was flooded by a gatecrasher who accidentally snapped off a sprinkler head while trying to gain access through a smoke vent in the roof.

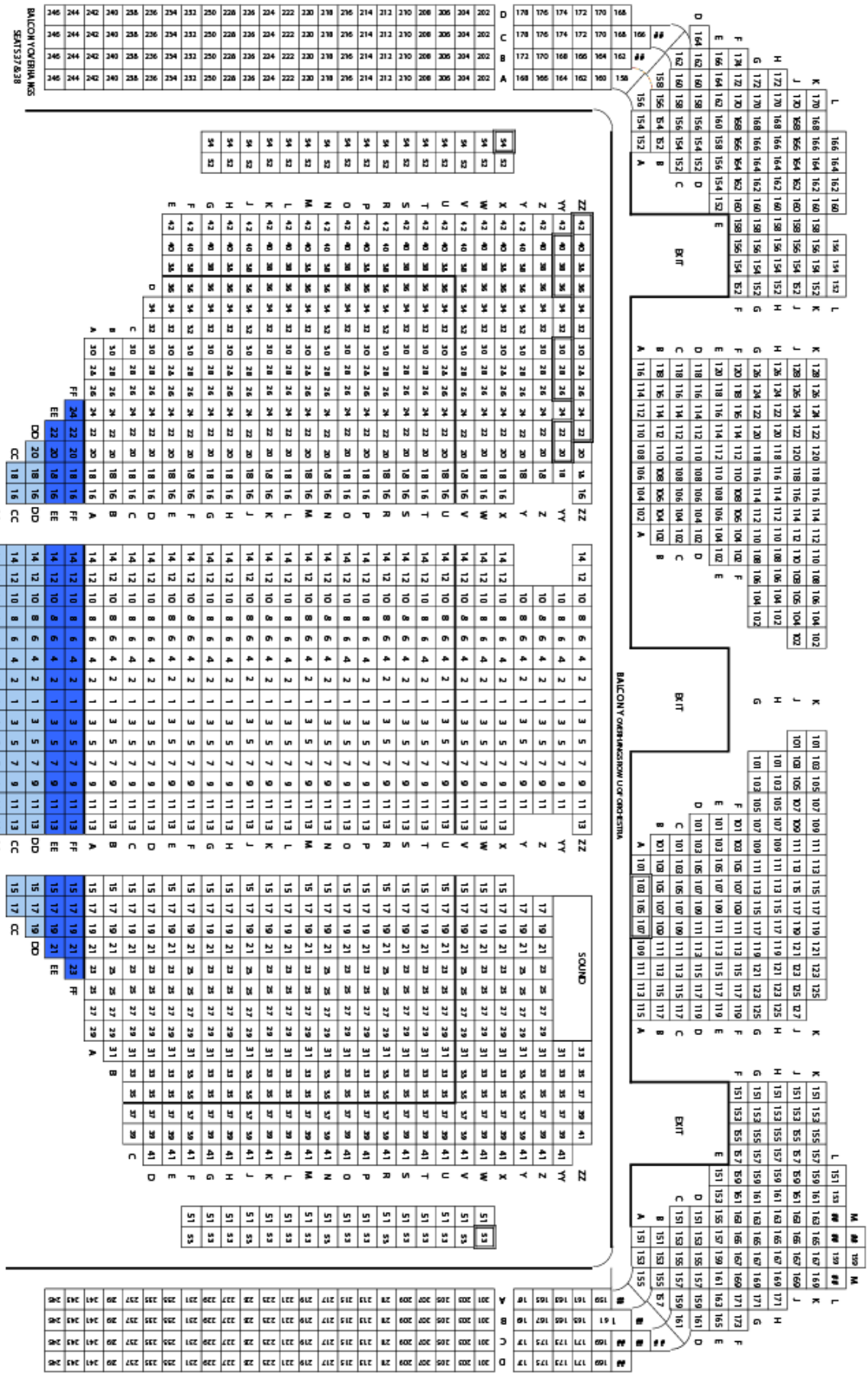
Over the years, the organ's magnificent sounds could be heard in recordings and live concerts with the Los Angeles Philharmonic. It added to the solemnity of academic convocations and commencement ceremonies. And it soon became recognized as one of the largest and most historically significant organs in Los Angeles.

After surviving two damaging earthquakes, 1933 Long Beach, and 1971 Sylmar a couple of fires and the aforementioned flood, the organ received extended damage in the 1994 Northridge quake that silenced it and closed Royce Hall for four years while sesmic improvements were performed. Though Royce was closed from ‘94 to ‘98 it wasn’t until February of 1999 that the organ made its own encore, fully restored and better than ever after more than $1 million in repairs and renovations. Thanks to a $150,000 gift from the Ahmanson Foundation, the organ has been expanded with a new Bombarde division of 24 ranks of pipes, bringing it to a total of 104 ranks and more than 6,500 pipes.

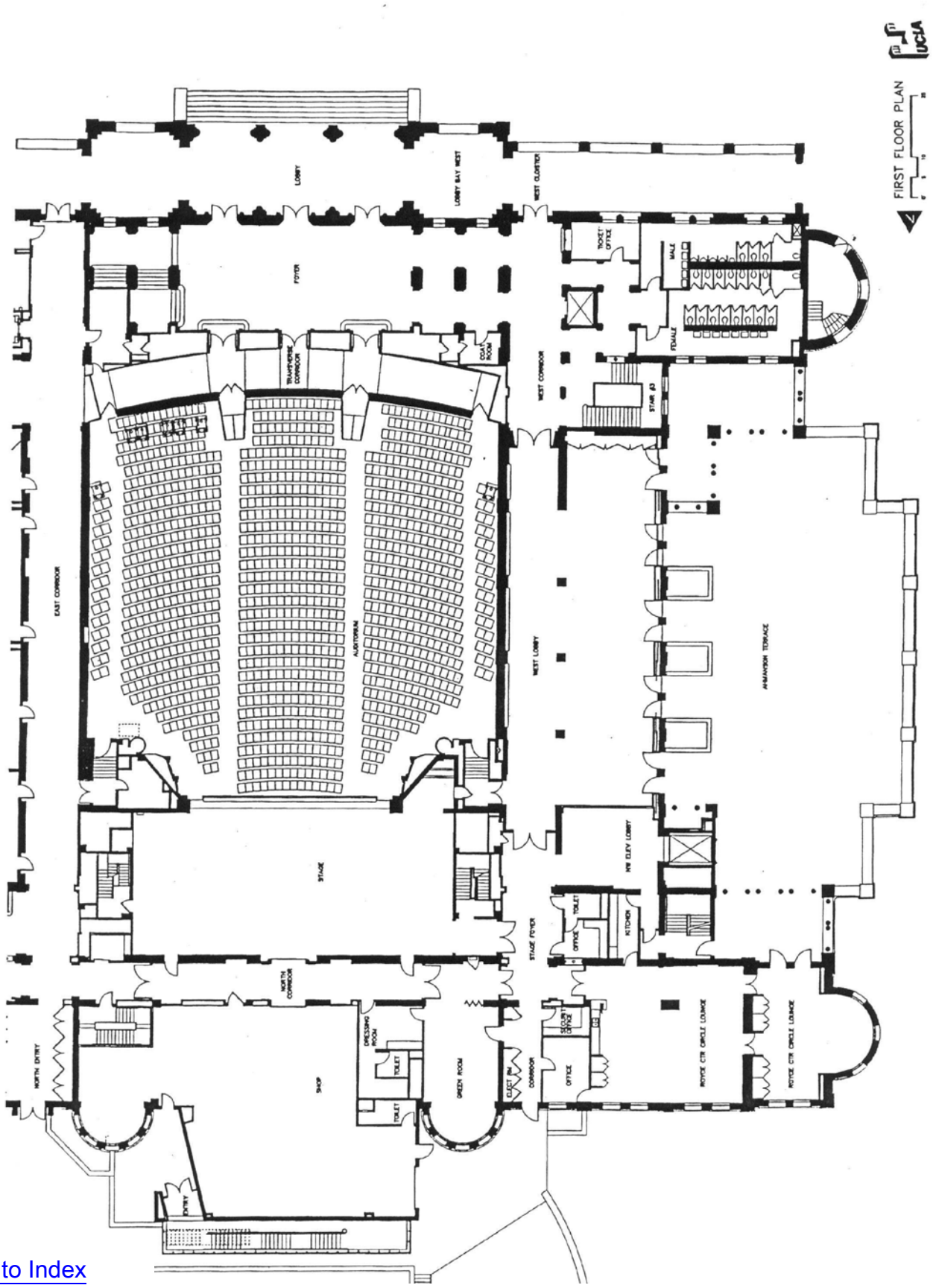
Reflecting the musical tastes of the era, the Skinner organ of 1930 was essentially "orchestral" or "symphonic" in style, designed to play transcriptions of 19th-century orchestral and operatic music as well as organ music of that style. "The renovation goal," said then University Organist and UCLA Music Department Professor Thomas Harmon, "was to repair and preserve the original organ intact and, with new additions, to increase its versatility in the performance of German Baroque and FrenchRomantic and contemporary music." A new state-of-the-art five-manual console by Robert Turner of Turner Organs was installed, with the fifth manual controlling the new division of the instrument.

The organ's robust sound has been further enriched by Royce Hall's recent acoustical renovations, which have lengthened the reverberation time. The care and supervision is now being guided by the current University Organist, Professor Christoph Bull. Under Professor Bull’s supervision the MultiLevel Capture system installed in 1982 has been updated with additional memory capability as well as midi interface.

SEATING CHART


ROYCE HALL - STAGE EXTENSION OPTIONS
BALCONY OVERHANGS ROW U OF ORCHESTRA
EXIT
SOUND
BALCONY OVERHANGS
SEATS 37 & 38
Total Capacity - All Seats In 1,836
With 1st Stage Extension 1,770
With 2nd Stage Extension 1,724

FIRST FLOOR GROUND PLAN



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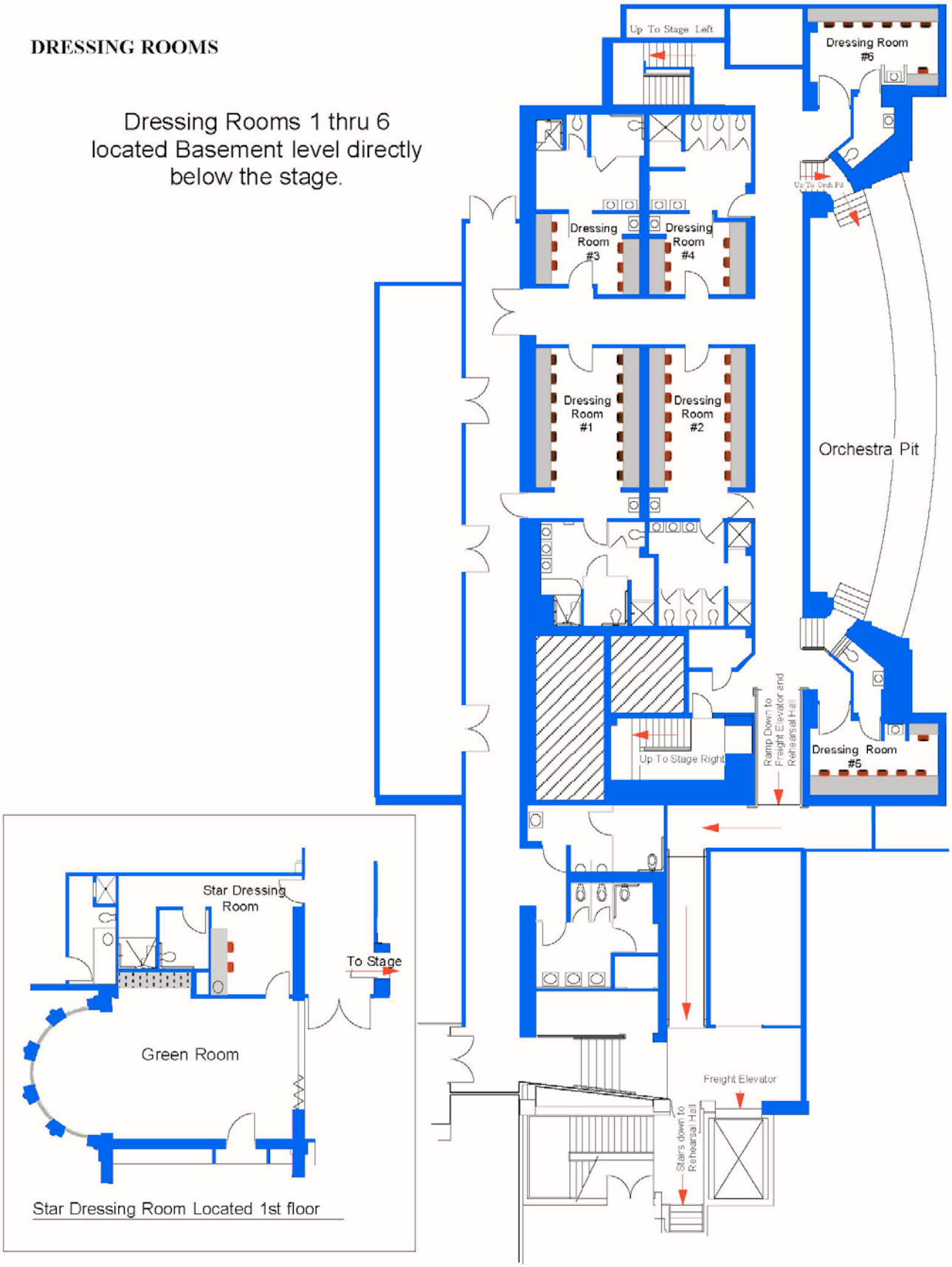
DRESSING ROOMS

Dressing Rooms 1 thru 6
located Basement level directly
below the stage.



RECEPTIONS

Receptions can be held in conjunction with performances or as a separate event.

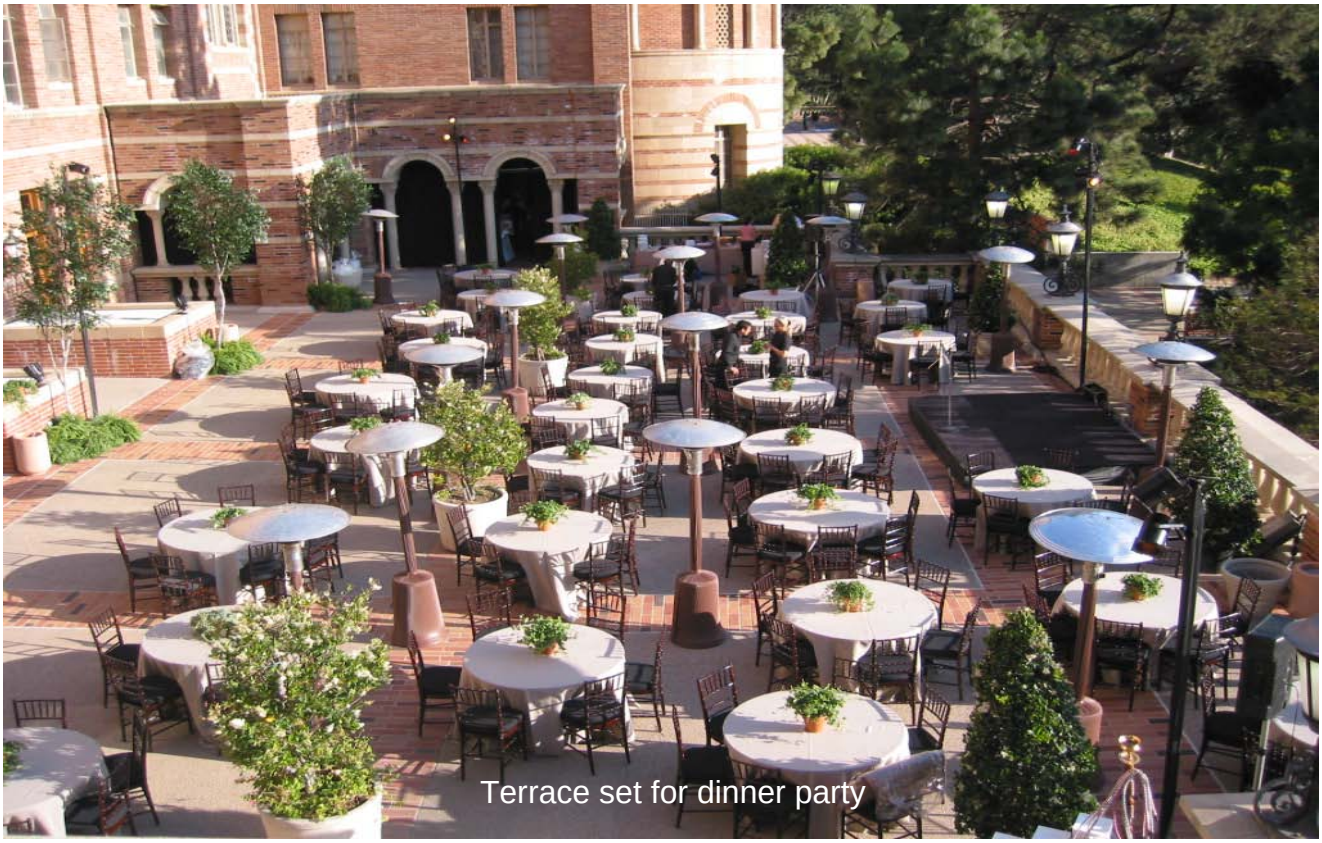
The Venue has the following equipment available for rent:

100 – upholstered, stackable banquet chairs.
18 – (3' x 6') Tables
32 – (5') Rounds
2 – (4' x 6') carpet risers adjustable height 8", 16"
16 – (4' x 8') risers heights 8", 16", 24"

West Lobby – 3,032 Square Feet, Seats 130 - Standing 400
Includes 50" Plasma monitor
Self contained sound system for reinforcement, or audio play back.

Floor Plan http://dmuller.bol.ucla.edu/AhmansonTerraceWestLobby.pdf

Ahmanson Terrace - 5,636 Square Feet. Seats 300 - Standing 800



Terrace set for dinner party

Standard Terrace Set -up

Royce Lounge & Rotunda -1,994 Square Feet, Seats 50 - Standing 125

Royce Lounge Rotunda

32” Plasma screen located in the south East corner.
Includes self contained sound system for reinforcement, or audio

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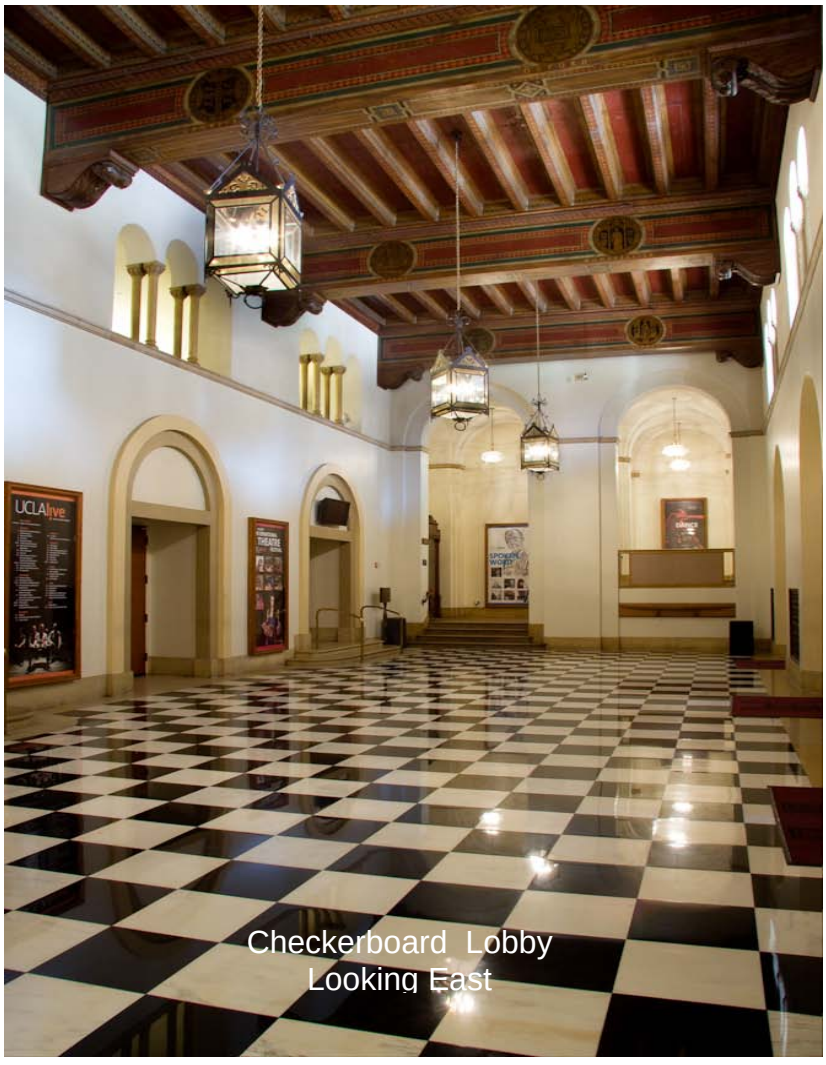
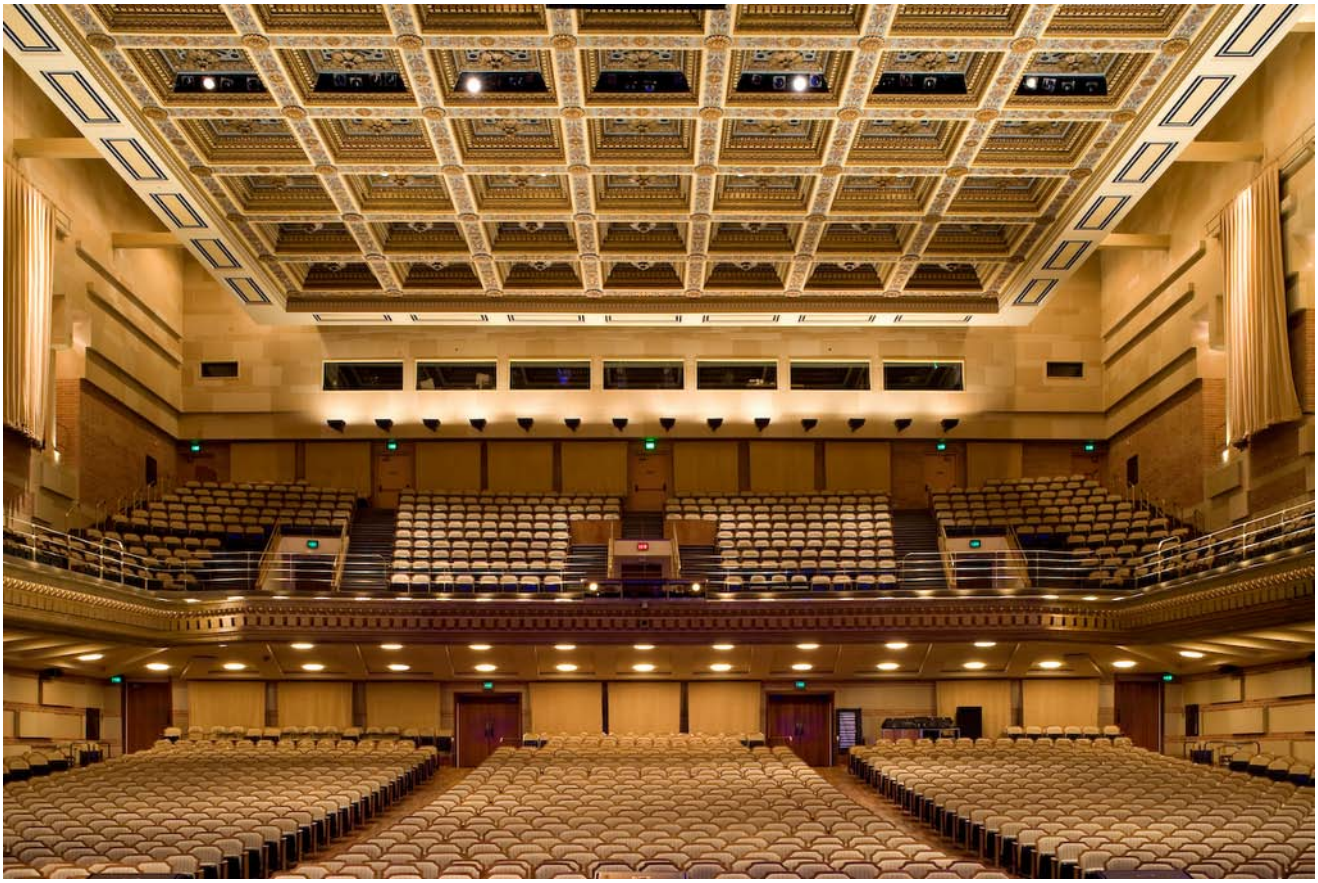
Checkerboard Lobby
Looking West



Checkerboard Lobby
Looking East



EDUCATION IS LEARNING TO USE THE TOOLS WHICH THE RACE HAS FOUND INDISPENSABLE